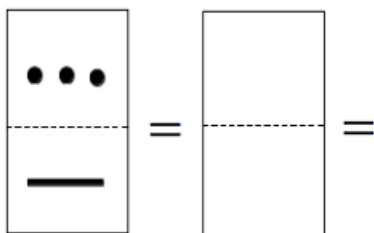
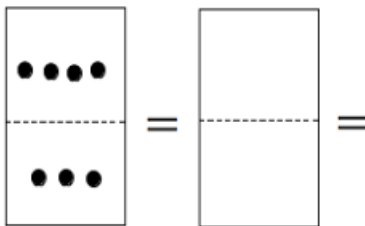
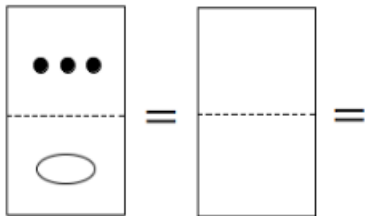
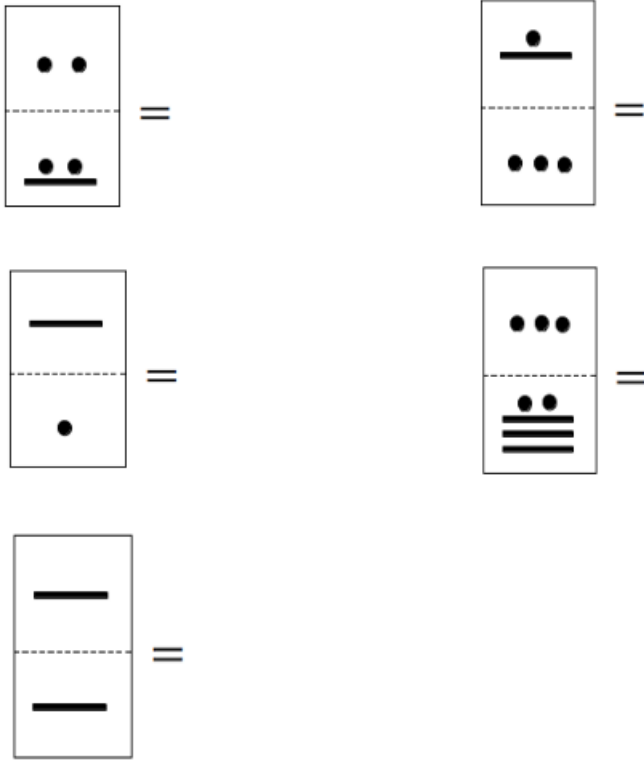


Mayan Notation Revisited

May 16, 2012

1. Write the following Mayan numbers in the usual notation:





2. Write the following numbers in Mayan notation:

(a) 20 = group(s) of 20
 group(s) of 1

(b) 26 = group(s) of 20
 group(s) of 1

(c) 43 = group(s) of 20
 group(s) of 1

(d) 49 = group(s) of 20
 group(s) of 1

(e) $54 =$

 group(s) of 20
 group(s) of 1

(f) $67 =$

 group(s) of 20
 group(s) of 1

(g) $70 =$

 group(s) of 20
 group(s) of 1

(h) $80 =$

 group(s) of 20
 group(s) of 1

(i) $103 =$

 group(s) of 20
 group(s) of 1

(j) $110 =$

 group(s) of 20
 group(s) of 1

3. Adding Mayan numbers:

(Be sure to use Mayan notation. Remember that should be written as _____)

$$\bullet \bullet + \bullet \bullet =$$

$$\bullet \bullet \bullet + \bullet \bullet =$$

$$\bullet \bullet \bullet + \bullet \bullet \bullet \bullet =$$

$$\underline{\bullet \bullet} + \bullet \bullet =$$

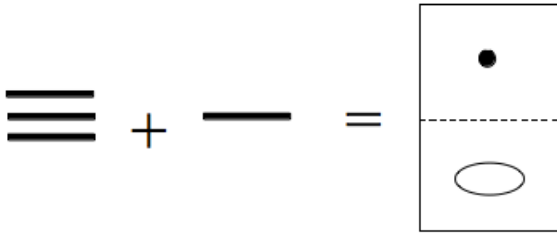
$$\underline{\bullet \bullet} + \underline{\bullet \bullet \bullet} =$$

$$\underline{\underline{\quad}} + \underline{\quad} =$$

$$\underline{\bullet \bullet} + \underline{\underline{\quad}} =$$

$$\underline{\underline{\bullet \bullet}} + \bullet \bullet \bullet =$$

4. Explain this formula found in an ancient Mayan city. Convert the numbers to the usual notation and see if the problem was solved correctly:

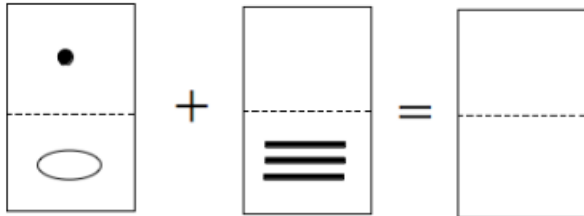
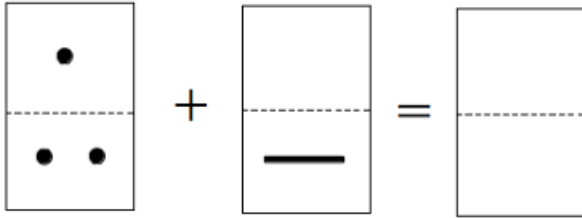
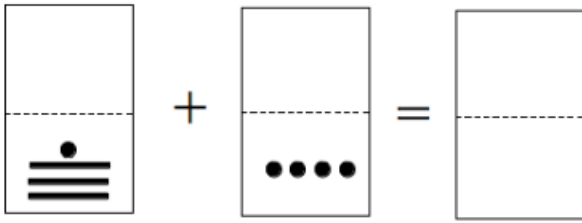


The image shows a mathematical equation in Mayan numerals. On the left, there are three horizontal bars stacked vertically, representing the number 3. This is followed by a plus sign (+) and a single horizontal bar, representing the number 1. To the right of the plus sign is an equals sign (=). Further right is a vertical rectangular box divided by a horizontal dashed line. The top half of the box contains a single black dot, representing the number 1. The bottom half of the box contains an oval, representing the number 20. This represents the number 21.

5. Time to be a teacher:

Find mistakes on the following homework submitted by an ancient Mayan boy. Correct it to show the student how to solve the problem. Use only Mayan numerals.

6. Solve the following addition problems:



7. Morse Code Continued:

Select a word and put it into Morse Code. Then, rewrite your code on an index card and have a friend decode it!

Word:

--	--	--	--	--	--	--	--	--	--	--

Code:

--	--	--	--	--	--	--	--	--	--	--

